

IN THE CLAIMS

Please replace all prior versions, and listings, of claims in the application with the following list of claims. Additions are indicated by underlining and deletions are indicated by strikeouts and/or double bracketing.

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1-2. (Cancelled)

3. (Currently Amended) A device comprising:

an article comprising a substrate and a layer of palladium metal on the substrate defining a surface; and

an isolated region of a self-assembled monolayer of a first molecular species on at least a portion of the surface, the isolated region including a lateral dimension of less than about 10 microns, surrounded by a continuous region of a self-assembled monolayer of a second molecular species on the surface, wherein the first molecular species terminates in an end exposed away from the surface having a first functionality and terminates in another end having a functional group selected to bind to the surface, and the second molecular species terminates in an end facing away from the surface having a second functionality;

~~wherein the portion of the surface containing the isolated region consists essentially of palladium.~~

4. (Original) A device as in claim 3, wherein the isolated region of the first molecular species has a lateral dimension of less than about 5 microns.

5. (Original) A device as in claim 3, wherein the isolated region of the first molecular species has a lateral dimension of less than about 1 micron.

6. (Original) A device as in claim 3, wherein the isolated region of the first molecular species has a lateral dimension of less than about 0.25 micron.
7. (Original) A device as in claim 3, wherein the isolated region of the first molecular species has an area of less than about 100 square microns.
8. (Original) A device as in claim 3, wherein the isolated region of the first molecular species has an area of less than about 25 microns.
9. (Original) A device as in claim 3, wherein the isolated region of the first molecular species has an area of less than about 1 square micron.
10. (Original) A device as in claim 3, wherein the isolated region of the first molecular species has an area of less than about 0.06 square micron.
11. (Original) A device as in claim 3, wherein the surface is nonplanar.
12. (Original) A device as in claim 3, wherein the first molecular species terminates in an end facing away from the surface having a hydrophilic functionality and the second molecular species terminates in an end facing away from the surface having a hydrophobic functionality.
13. (Previously Presented) A device as in claim 3, wherein the first molecular species terminates in an end, having a hydrophobic functionality, facing away from the surface and the second molecular species terminates in an end, in a hydrophilic functionality, facing away from surface.
14. (Original) A device as in claim 13 wherein the surface is nonplanar.

15. (Original) A device as in claim 12 wherein the surface is nonplanar.

16-54. (Cancelled)

55. (Currently Amended) An article comprising a substrate and a layer of palladium metal on the substrate defining a surface; and

a self-assembled layer of molecular species on at least a portion of the surface defining a pattern, the pattern corresponding to a pattern of an applying surface able to direct formation of the pattern of the monolayer of the molecular species on the surface, the molecular species terminating in a functional group selected to bind to the surface, ~~wherein the portion of the surface defined by the pattern consists essentially of palladium.~~

56. (Original) The article of claim 55, wherein the pattern includes a lateral dimension of less than 10 microns.

57. (Original) The article of claim 56, wherein the pattern includes a lateral dimension of less than about 5 microns.

58. (Original) The article of claim 57, wherein the pattern includes a lateral dimension of less than about 1 micron.

59. (Original) The article of claim 58, wherein the pattern includes a lateral dimension of less than about 0.25 micron.

60-68. (Cancelled)

69. (Currently Amended) A device comprising:

an article comprising a substrate and a layer of palladium metal on the substrate defining a surface;

an isolated region of a self-assembled layer of a first molecular species on at least a portion of the surface, the molecular species terminating in a functional group selected to bind to the surface, the isolated region including a lateral dimension of less than 200 microns, ~~wherein the portion of the surface containing the isolated region consists essentially of palladium.~~

70. (Original) The device of claim 69, wherein the isolated region includes a lateral dimension of less than about 110 microns, surrounded by a continuous region of a self-assembled layer of a second molecular species on the surface, wherein the first molecular species comprises a first functionality and the second molecular species comprises a second functionality.
71. (Original) The device of claim 70, wherein the isolated region of the first molecular species has a lateral dimension of less than about 10 microns.
72. (Original) The device of claim 71, wherein the isolated region of the first molecular species has a lateral dimension of less than about 5 microns.
73. (Original) The device of claim 72, wherein the isolated region of the first molecular species has a lateral dimension of less than about 1 micron.
74. (Original) The device of claim 69, wherein the isolated region of the first molecular species has an area of less than 1 square micron.
75. (Original) The device of claim 74, wherein the isolated region of the first molecular species has an area of less than 0.06 square micron.

76-97. (Cancelled)